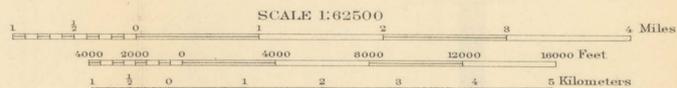


GEOLOGIC MAP OF UPPER MATANUSKA VALLEY, ALASKA

Topography by R. H. Sargent
 Surveyed in 1909 and 1913
 Light contours represent unsurveyed areas

Geology by S. R. Capps,
 G. C. Martin, J. B. Mertie, jr.,
 F. J. Katz, and K. K. Landes
 Surveyed in 1913 and 1924



Contour interval 50 feet.

Datum is mean sea level.

Elevations based upon bench marks established by Alaska Central Railroad
 Geodetic position based upon data by U. S. Coast and Geodetic Survey
 and General Land Office

1927

EXPLANATION

QUATERNARY		TERTIARY		
<p>Qal Stream gravel, sand, and silt</p>	<p>Qmg Morainal material, terrace gravel, and talus UNCONFORMITY</p>	<p>Tb Basaltic lava</p>	<p>Tg Intrusive gabbro, diabase, and basalt</p>	<p>Tst Soda felsite, intrusive UNCONFORMITY</p>
<p>Qal Stream gravel, sand, and silt</p>	<p>Qmg Morainal material, terrace gravel, and talus UNCONFORMITY</p>	<p>Tb Basaltic lava</p>	<p>Tg Intrusive gabbro, diabase, and basalt</p>	<p>Tst Soda felsite, intrusive UNCONFORMITY</p>
<p>Tec Eska conglomerate (Alternating beds of conglomerate, 5 to 50 feet or more thick, and arkosic sandstone, in beds from a few inches to 40 feet thick) UNCONFORMITY</p>	<p>Tc Chickaloon formation (Shale and sandstone, cut by numerous sills and dikes of gabbro and diabase some of which are not mapped)</p>	<p>Ta Arkose, shale, and conglomerate (Possibly in part equivalent to Esko conglomerate and Chickaloon formation and in part older) UNCONFORMITY</p>		
<p>Km Matanuska formation (Shale and sandstone, cut by dikes and sills of gabbro and diabase. As mapped, possibly includes some Jurassic beds on north side of Anthracite Ridge) UNCONFORMITY?</p>	<p>Kl Massive limestone (Believed to be Lower Cretaceous but may be older) UNCONFORMITY</p>	<p>Jv Talkeetna formation (Volcanic breccia, agglomerate, and tuff)</p>	<p>gr Granitic intrusives (Mainly quartz diorite)</p>	<p>ms Metamorphosed sedimentary rocks (Gneiss, schist, and schist)</p>
<p>Fault</p>	<p>Probable fault</p>	<p>Coal outcrop described in text</p>		